



PATENT
TS1260 02 (US)
DFH:EM

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on or before the date shown below.

Donald F. Haas

Date: April 7, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)

ARIE VAN ZON, ROBERT MOENE,)
PHILLIP E. UNGER, PETER ARNOLDY,)
and ERIC J. M. DE BOER)

Serial No. 10/668,933)

Group Art Unit: 1764

Filed September 23, 2003)

PROCESS FOR MAKING A LINEAR)
ALPHA-OLEFIN OLIGOMER USING A)
HEAT EXCHANGER)

April 7, 2005

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

ARIE VAN ZON, ROBERT MOENE,
PHILLIP E. UNGER, PETER ARNOLDY,
and ERIC J. M. DE BOER

By

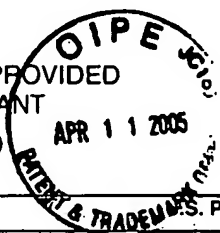
Attorney, Donald F. Haas
Registration No. 26,177
(713) 241-3356

P.O. Box 2463
Houston, Texas 77252-2463

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
TS1260 02 (US)APPLICATION NUMBER
10/668,933APPLICANT
Arie Van Zon et al.FILING DATE
September 23, 2003GROUP ART UNIT
1764

REFERENCE DESIGNATION

| Examiner Initial | Document No. | Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|--------------|------|----------|-------|----------|----------------------------|
| | AA | | | | | |
| | AB | | | | | |
| | AC | | | | | |
| | AD | | | | | |
| | AE | | | | | |

FOREIGN PATENT DOCUMENTS

| Document No. | Date | Country | Class | Subclass | Translation Yes | No |
|--------------|------|---------|-------|----------|-----------------|----|
| AG | | | | | | |
| AH | | | | | | |

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

| | |
|----|--|
| AK | |
|----|--|

FOREIGN SEARCH REPORT (IF IN ENGLISH) CITING ANY OF THE ABOVE REFERENCES

FOREIGN PATENT OFFICE

| | |
|----|---|
| AN | Written Opinion for PCT/EP 03/10710 dated 5 July 2004 |
| AO | Response to Written Opinion for PCT/EP 03/10710 dated 5 November 2004 |
| AP | International Preliminary Examination Report for PCT/EP 03/10710 dated 22 December 2004 |
| AQ | Written Opinion for PCT/EP 03/10709 dated 28 October 2004 |
| AR | Response to Written Opinion for PCT/EP 03/10709 dated 2 December 2004 |
| AS | International Preliminary Examination Report for PCT/EP 03/10709 dated 7 July 2005 |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

PATENT
TS12606 02 (US)
DFH:EM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the accompanying application of)

ARIE VAN ZON, ROBERT MOENE,)
PHILLIP E. UNGER, PETER ARNOLDY,)
and ERIC J. M. DE BOER)

PROCESS FOR MAKING A LINEAR)
ALPHA-OLEFIN OLIGOMER USING A)
HEAT EXCHANGER)

September 23, 2003

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

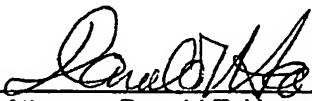
INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

ARIE VAN ZON, ROBERT MOENE,
PHILLIP E. UNGER, PETER ARNOLDY,
and ERIC J. M. DE BOER

By 
Attorney, Donald F. Haas
Registration No. 26,177
(713) 241-3356

P.O. Box 2463
Houston, Texas 77252-2463

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TS1260 02 (US)

APPLICATION NUMBER

LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
A. Van Zon et al.

FILING DATE

GROUP ART UNIT

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

| Examiner Initial | Document No. | Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|--------------|------|----------|-------|----------|-------------------------------|
| | AA | | | | | |
| | AB | | | | | |
| | AC | | | | | |
| | AD | | | | | |
| | AE | | | | | |
| | AF | | | | | |
| | AG | | | | | |

FOREIGN PATENT DOCUMENTS

| | | Document No. | Date | Country | Class | Subclass | Translation | |
|----------|----|----------------|---------|---------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| <i>D</i> | AJ | WO 02/28805 A2 | 4/11/02 | World | C07C | 2/32 | | |
| <i>D</i> | AK | WO 02/06192 A1 | 1/24/02 | World | C07C | 2/32 | | |
| <i>D</i> | AL | WO 02/03339 A2 | 1/3/02 | World | B01J | 31/22 | | |
| <i>D</i> | AM | WO 01/58674 A1 | 8/16/01 | World | C07D | 213/53 | | |
| <i>D</i> | AN | WO 02/12151 A1 | 2/14/02 | World | C07C | 2/32 | | |
| <i>D</i> | AO | WO 99/02472 | 1/21/99 | World | C07C | 2/32 | | |

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

| | | |
|----------|----|--|
| <i>D</i> | AR | D. Vogt, Oligomerisation of ethylene to higher alpha-olefins in Applied Homogeneous Catalysis with organometallic Compounds, Ed. B. Cornils, W. A. Herrmann, 2 nd Edition, Vol. 1, Ch. 2.3.1.1, page 240-253, Wiley-VCH 2002) |
| | AS | |
| | AT | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

PATENT *IFW*
TS1260 02 (US)
DFH:EM

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on or before the date shown below.



Donald F. Haas
Donald F. Haas
Date: April 14, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)

ARIE VAN ZON, ROBERT MOENE,)
PHILLIP E. UNGER, PETER ARNOLDY,)
and ERIC J. M. DE BOER)

Serial No. 10/668,933)

Group Art Unit: 1764

Filed September 23, 2003)

PROCESS FOR MAKING A LINEAR)
ALPHA-OLEFIN OLIGOMER USING A)
HEAT EXCHANGER)

April 14, 2005

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

ARIE VAN ZON, ROBERT MOENE,
PHILLIP E. UNGER, PETER ARNOLDY,
and ERIC J. M. DE BOER

By *Donald F. Haas*
Attorney, Donald F. Haas
Registration No. 26,177
(713) 241-3356

P.O. Box 2463
Houston, Texas 77252-2463

| | | |
|---|------------------------------------|----------------------------------|
| FORM PTO-1449 (Modified) LIST OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary) | ATTY. DOCKET NO. TS1260 02 (US) | APPLICATION NUMBER 10/668,933 |
| | APPLICANT A. Van Zon et al. | |
| | FILING DATE September 23, 2003 | GROUP ART UNIT 1764 |

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Patentee | Class | Subclass | Filing Date if Appropriate |
|------------------|----|--------------|---------|---------------|-------|----------|----------------------------|
| <i>M</i> | AA | 5,198,563 | 3/30/93 | Reagen et al. | 556 | 57 | |
| <i>M</i> | AB | 5,288,823 | 2/22/9 | Reagen et al. | 526 | 124 | |
| <i>M</i> | AC | 5,382,738 | 1/17/95 | Reagen et al. | 585 | 512 | |
| <i>M</i> | AD | 5,550,305 | 8/27/96 | Wu | 585 | 513 | |

FOREIGN PATENT DOCUMENTS

| | | Document No. | Date | Country | Class | Subclass | Translation Yes No | |
|----------|----|----------------|----------|---------------|-------|----------|-----------------------|--|
| <i>M</i> | AF | 135,873 | 3/4/20 | Great Britain | | | | |
| <i>M</i> | AG | 0,611,743 B1 | 7/2/97 | Europe | C07C | 2/3 | | |
| <i>M</i> | AH | WO 99/52631 | 10/21/99 | World | B01J | 31/18 | | |
| <i>M</i> | AI | WO 02/06192 A1 | 1/24/02 | World | C07C | 2/32 | | |
| <i>M</i> | AJ | 0,608,447 A1 | 1/26/93 | Europe | C08F | 10/00 | | |
| <i>M</i> | AK | WO 94/25416 | 11/10/94 | World | C07C | 2/34 | | |
| <i>M</i> | AL | WO 02/04119 A1 | 1/17/02 | World | B01J | 31/18 | | |
| <i>M</i> | AM | WO 96/27439 | 9/12/96 | World | B01J | 31/18 | | |
| <i>M</i> | AN | 0,614,865 A1 | 3/9/94 | Europe | C07C | 2/30 | | |
| <i>M</i> | AO | JP11049804 | 2/23/99 | Japan | C08F | 2/00 | X | |

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

| | | |
|----------|----|---|
| <i>M</i> | AR | W. Kaminsky and M. Arndt-Rosenau, Chemical Background in Applied Homogeneous Catalysis with organometallic Compounds, Ed. B. Cornils, W. A. Herrmann, 2 nd Edition, Vol. 1, Ch. 2.3.1.1, pp. 213-230, Wiley-VCH 2002 |
| <i>M</i> | AS | R.M. Manyik, W.E. Walker, T.P. Wilson, J. Catal., 1977, 47, 197 and J.R. Briggs, Chem. Commun. 1989 and cited references |
| | AT | / |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.